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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/697,101	10/31/2003	Ashok B. Nayak	036263-018 8993		
7590 07/14/2005			EXAMINER		
ROBERT E. KREBS			CHEN, TIANJIE		
THELEN REI	D & PRIEST LLP				
P.O. BOX 640	640	ART UNIT	PAPER NUMBER		
SAN JOSE, C	A 95164	2652			

DATE MAILED: 07/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	- 1	Application No.		Applicant(s)					
Office Action Summary		10/697,101		NAYAK ET AL.					
		Examiner		Art Unit					
		Tianjie Chen		2652					
The MAILING DATE of this co Period for Reply	mmunication appea	ars on the cove	sheet with the co	rrespondence ad	Idress				
A SHORTENED STATUTORY PER THE MAILING DATE OF THIS COM - Extensions of time may be available under the pı after SIX (6) MONTHS from the mailing date of ti - If the period for reply specified above is less than - If NO period for reply is specified above, the may - Failure to reply within the set or extended period Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.7	IMUNICATION. ovisions of 37 CFR 1.136(nis communication. thirty (30) days, a reply w imum statutory period will for reply will, by statute, ca months after the mailing de	(a). In no event, howe within the statutory min apply and will expire ause the application to	ever, may a reply be time nimum of thirty (30) days SIX (6) MONTHS from the property of the second s	ely filed will be considered timel ne mailing date of this c (35 U.S.C. § 133).					
Status									
1) Responsive to communication	(s) filed on	••							
2a) This action is FINAL .	2b)⊠ This a	ection is non-fina	al.	•					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4)⊠ Claim(s) <u>1-20</u> is/are pending i 4a) Of the above claim(s) 5)□ Claim(s) is/are allowed 6)⊠ Claim(s) <u>1-3,11 and 12</u> is/are 7)⊠ Claim(s) <u>4-10 and 13-20</u> is/are 8)□ Claim(s) are subject to	_ is/are withdrawr rejected. e objected to.				·				
Application Papers									
9)☐ The specification is objected to	by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
Applicant may not request that ar	ny objection to the dr	awing(s) be held	in abeyance. See	37 CFR 1.85(a).					
Replacement drawing sheet(s) in 11) The oath or declaration is obje	-	*	• • • • •		• •				
Priority under 35 U.S.C. § 119									
12) Acknowledgment is made of a a) All b) Some * c) Non- 1. Certified copies of the p 2. Certified copies of the p 3. Copies of the certified of application from the Inte * See the attached detailed Office	e of: riority documents linerity documents linerity documents linerity opies of the priority ernational Bureau (have been rece have been rece y documents ha (PCT Rule 17.2	eived. eived in Applicatio ave been received (a)).	on No d in this National	Stage				
Attachment(s)									
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Regard Information Disclosure Statement(s) (PTO-Paper No(s)/Mail Date 20031031. 	view (PTO-948) 1449 or PTO/SB/08)	5)	Interview Summary (I Paper No(s)/Mail Dat Notice of Informal Pa Other:	e	O-152)				

Application/Control Number: 10/697,101

Art Unit: 2652

Non-Final Rejection

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-3, 11, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Todd et al (US 6,057,980) in view of Dohman (US 5,867,352).

Claim 1, Todd et al shows a cleaning apparatus for a magnetic write/read head of a tape drive including: a cleaning brush (Fig. 4, column 4, lines 26-31); and means 72 for guiding the cleaning brush in the vertical direction of the head.

Todd does not show grooves in the write/read head.

Dohman shows a cleaning apparatus for a magnetic write/read head, wherein the head has cleaning grooves 61 and 62 (Fig. 5; column 5, lines 22-25).

It would have been obvious at the time the invention was made to one of ordinary skill in the art to add the cleaning grooves taught by Dohman onto magnetic head in Todd et al's device. The rationale is as follows: Dohman teaches that by adding the grooves the dirt, which is scraped off, is collected in the grooves. One of ordinary skill in the art would have been motivated to add the grooves for collecting the dirt and then clean it by the brush. In such constructed device, means 72 would guide the cleaning brush in the same direction as grooves in the write/read head.

Claim 2, the above constructed device is a tape drive head cleaner for a tape drive having a magnetic read/write head, the head cleaner including: a brush carriage 74; a brush 70 mounted on the brush carriage; and a brush carriage movement mechanism 74+76 coupled to the brush carriage for moving the brush carriage to cause the brush to sweep along the length of the read/write head (Fig. 4, column 4, lines 25-34).

Claim 3, in the above constructed device, the read/write head has longitudinal grooves, and the brush inherits bristles, and wherein the brush carriage movement mechanism is configured to move the brush carriage so as to cause the brush bristles to enter the grooves and move the brush in the direction of the grooves.

Claim 11, as described above, the above constructed device is a tape drive including: a write/read head having grooves extending along a first axis; a brush; and a brush carriage on which the brush is mounted, the brush carriage controllably movable to sweep the brush on the write/read head along the first axis.

Claim 12, Todd et al further shows a write/read head actuator configured to move the write/read head on the first axis (Column 6, lines 15-19).

Allowable Subject Matter

2. Claims 4-10 and 13-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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• With regard to claims 4 and 13, Todd et al further shows an actuator coupled to

the read/write head, the actuator controllable to move the read/write head; but

fails to show that the actuator controllable to move the read/write head during

movement of the brush carriage.

• Applicant states in specification p. 6: in certain embodiments of the invention,

the write/read head actuator is activated to move the write/read head up and

down along the first axis 13 at the same time the brush is moved up and down

to sweep the length of the grooves in the write/read head. The movement of the

write/read head created by the write/read head actuator serves to agitate and

loosen the debris, which the brush sweeps out of the grooves in the write/read

head.

Conclusion

3. The prior art made of record in PTO-892 Form and not relied upon is

considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tianjie Chen whose telephone number is 571-272-

7570. The examiner can normally be reached on 8:00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

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TIANJIE CHEN PRIMARY EXAMINER